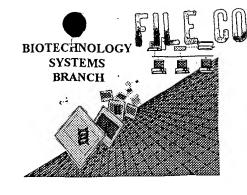
RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/267, 963/5

Source: 1647 TECH CENTER 1600/2900

Date Processed by STIC: 3/27/200/

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual-Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

? (.

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/267,963(

ATTN	: NEW RULES CASES:	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
1	Wrapped Nucleics	The number/text at the end of each line "wrapped" down to the next line.
		This may occur if your file was retrieved in a word processor after creating it.
		Please adjust your right margin to .3, as this will prevent "wrapping".
2	Wrapped Aminos	The amino acid number/text at the end of each line "wrapped" down to the next line.
	•••	This may occur if your file was retrieved in a word processor after creating it.
		Please adjust your right margin to .3, as this will prevent "wrapping".
3	Incorrect Line Length	The rules require that a line not exceed 72 characters in length. This includes spaces.
4 1	Misaligned Amino Acid	The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
	Numbering	between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
5	Non-ASCII	This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
		Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
6	Variable Length	Sequence(s) contain n's or Xaa's which represented more than one residue.
	-	As per the rules, each n or Xaa can only represent a single residue.
		Please present the maximum number of each residue having variable length and
		indicate in the (ix) feature section that some may be missing.
7	Patentin ver. 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
		sequence(s) Normally, Patentin would automatically generate this section from the
		previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
		to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223>
		sections for Artificial or Unknown sequences.
8	Skipped Sequences	Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
	(OLD RULES)	(2) INFORMATION FOR SEQ ID NO:X:
		(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
		(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
		This sequence is intentionally skipped
		Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
9	Skipped Sequences	Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
	(NEW RULES)	<210> sequence id number
		\$400> sequence id number
		000
10	Use of n's or Xaa's	Use of n's and/or Xaa's have been detected in the Sequence Listing.
	(NEW RULES)"	Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
		In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
11	Use of <213>Organism	Sequence(s) are missing this mandatory field or its response.
	(NEW RULES)	
12	Use of <220>Feature	Sequence(s) are missing the <220>Feature and associated headings.
	(NEW RULES)	Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
	,	Please explain source of genetic material in <220> to <223> section.
	-	(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules
13	Patentin ver. 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
· · · —	ratelititi fer, 2.0 bag	file, Testilling in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
		Instead, please use "File Manager" or any other means to copy file to floppy disk.

RAW SEQUENCE LISTING PATENT APPLICATION US/09/267,963B

DATE: 04/02/2001 TIME: 22:24:55

INPUT SET: S36584.raw

This Raw Listing contains the General Information Section and those Sequences containing ERRORS.

pr 2, 4-5

1 2		SEQUENC	E LISTING	Does Not Comply Corrected Diskette Needed
3	(1) G	eneral Information:		
4				
5 6	(1)	APPLICANT: Kohei MIYAZONO; Take:	she IMAMURA;	Peter DEN DIJKE
6 7	(++)	TITLE OF INVENTION: ISOLATED A	TV 1 DDOTETN	NUCLEIC ACIDS ENCODING
8	(11)	IT, AND USES THEREOF	DK-I PROIDIN,	NOCLEIC ACIDS ENCODING
9		11, AND ODES THEREOF		
10	(iii)	NUMBER OF SEQUENCES: 46		
11		~		
12	(iv)	CORRESPONDENCE ADDRESS:		
13		(A) ADDRESSEE: Fulbright & Jaw		
14		(B) STREET: 666 Fifth Avenue (C) CITY: New York City	9	
15		(C) CITY: New York City		
16 17		(D) STATE: New York		
18		(E) COUNTRY: USA (F) ZIP: 10103		
19		(1) 211.		
20	(v)	COMPUTER READABLE FORM:		
21	, , ,	(A) MEDIUM TYPE: Diskette, 3.29	5 inch, 1.44m	b
22		(B) COMPUTER: IBM PS/2	•	
23		(C) OPERATING SYSTEM: PC-DOS		
24		(D) SOFTWARE: Wordperfect		
25				
26	(V1)	CURRENT APPLICATION DATA:		
27 28		(A) APPLICATION NUMBER: 09/267,9	163	
29		(B) FILING DATE: March 12, 1999 (C) CLASSIFICATION: 435		
30		(C) CHABBIFICATION: 455		
31	(vii)	PRIOR APPLICATION DATA:		
32	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(A) APPLICATION NUMBER: PCT/GB93	3/02367	
33		(B) FILING DATE: November 17, 19		
34				
35	(vii)	PRIOR APPLICATION DATA:		
36		(A) APPLICATION NUMBER: GB 92240		
37		(B) FILING DATE: November 17, 19) 92	
38	/ i \	DRIOR ADDITIONATION DAMA.		
39 40	(\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: GB 93046	77 9	
41		(B) FILING DATE: March 8, 1993	, , , , ,	
42		(2, 22210 21121 110201 3, 2333		
43	(vii)	PRIOR APPLICATION DATA:		
44	•	(A) APPLICATION NUMBER: GB 93046	80.3	
45		(B) FILING DATE: March 8, 1993		

RAW SEQUENCE LISTING PATENT APPLICATION US/09/267,963B

DATE: 04/02/2001 TIME: 22:24:55

INPUT SET: S36584.raw

```
46
47
        (vii) PRIOR APPLICATION DATA:
48
              (A) APPLICATION NUMBER: 9311047.6
49
              (B) FILING DATE: May 28, 1993
50
51
        (vii) PRIOR APPLICATION DATA:
52
              (A) APPLICATION NUMBER: 9313763.6
53
              (B) FILING DATE: July 2, 1993
55
        (vii) PRIOR APPLICATION DATA:
56
              (A) APPLICATION NUMBER: 9136099.2
57
              (B) FILING DATE: August 3, 1993
58
59
        (vii) PRIOR APPLICATION DATA:
              (A) APPLICATION NUMBER: 321344.5
60
61
              (B) FILING DATE: October 15, 1993
62
63
        (vii) PRIOR APPLICATION DATA:
64
              (A) APPLICATION NUMBER: 09/039,177
65
              (B) FILING DATE: March 13, 1998
66
67
       (viii) ATTORNEY/AGENT INFORMATION:
68
              (A) NAME: Mary Anne Schofield
69
              (B) REGISTRATION NUMBER: 36,669
70
              (C) REFERENCE/DOCKET NUMBER: LUD 5539.1 CIP - JEL/MAS
71
72
         (ix) TELECOMMUNICATION INFORMATION:
73
              (A) TELEPHONE: (212) 318-3000
74
              (B) TELEFAX: (212) 318-3400
75
76
```

ERRORED SEQUENCES FOLLOW:

```
(2) INFORMATION FOR SEQ ID NO: 34:
2716
          (i) SEQUENCE CHARACTERISTICS:
2717
                                            delete 7
               (A) LENGTH: 513 amino acids
2718
               (B) (TY XPE amino acid
2719
               (D) TOPOLOGY: linear
2720
2721
2722
         (ii) MOLECULE TYPE: peptide
2723
2724
          (vi) ORIGINAL SOURCE:
2725
               (A) ORGANISM: MOUSE
2726
2727
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 34:
2728
2729
      Met Gly Ala Ala Lys Leu Ala Phe Ala Val Phe Leu Ile Ser Cys
2730
2731
      Ser Ser Gly Ala Ile Leu Gly Arg Ser Glu Thr Gln Glu Cys Leu Phe
```

RAW SEQUENCE LISTING PATENT APPLICATION US/09/267,963B

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2732	_		_	20		_	_		25					30		
2733	Phe	Asn	Ala	Asn	Trp	Glu	lys	Asp	Arg	Thr	Asn	Gln	Thr	Gly	Val	Glu
2734			35					40					45			
2735	Pro	Cys	Tyr	Gly	Asp	Lys	Asp	Lys	Arg	Arg	His	Cys	Phe	Ala	Thr	Trp
2736		50					55					60				_
2737	Lvs	Asn	Ile	Ser	Gly	Ser	Ile	Glu	Ile	Val	Lvs	Gln	Glv	Cvs	Trp	Leu
2738	65				- 2	70					75		2	- 2 -	1-	80
2739		Agn	Tla	Agn	Cve		λen	λνα	Thr	λen		T = T	Glu	Tare	Larg	Asp
	Pab	ASP	116	A511		TYL	ASP	Arg	1111	_	Cys	vai	Gru	цуз	_	АБР
2740	G	D	a 1	77-7	85	D1	~	a	~	90	~1	-	> 6	G	95	~ 1
2741	ser	Pro	GIU		Tyr	Pne	Cys	Cys	_	GIU	GIY	Asn	Met	_	Asn	GIU
2742	_			100	_		_		105	_	_	_		110		
2743	Lys	Phe	Ser	Tyr	Phe	Pro	Glu	Met	Glu	Val	Thr	Gln	Pro	Thr	Ser	Asn
2744			115					120					125			
2745	Pro	Val	Thr	Pro	Lys	Pro	Pro	Tyr	Tyr	Asn	Ile	Leu	Leu	Tyr	Ser	Leu
2746		130					135					140				
2747	Val	Pro	Leu	Met	Leu	Ile	Ala	Gly	Ile	Val	Ile	Cys	Ala	Phe	Trp	Val
2748	145					150		-			155	•			-	160
2749		Ara	His	His	Lys		Δla	Tvr	Pro	Pro		Leu	Va 1	Pro	Thr	
2750	-1-	9			165		1114	- 7 -		170	, a _		var	110	175	0.1.11
2751	7 00	Dro	C1	Dro	Pro	Dro	Dro	C0*	Dro		T 011	C1	T 011	T		T 011
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2752	~ 1	.	.	180	7	_		_	185	_	-1	~1	_	190	_	_
2753	GIn	Leu		GIU	Val	гàг	Ата	-	GIY	Arg	Pne	GIY	_	Val	Trp	ьуs
2754	_	_	195					200					205			
2755	Ala	Gln	Leu	Leu	Asn	Glu	\mathtt{Tyr}	Val	Ala	Val	Lys	Ile	Phe	Pro	Ile	Gln
2756		210					215					220				
2757	Asp	Lys	Gln	Ser	Trp	Gln	Asn	Glu	Tyr	Glu	Val	Tyr	Ser	Leu	Pro	Gly
2758	225					230			-		235					240
2759	Met	Lvs	His	Glu	Asn	Ile	Leu	Gln	Phe	Ile	Glv	Ala	Glu	Lvs	Arq	Glv
2760		•			245					250	- 2				255	1
2761	Thr	Ser	Val	Asn	Val	Δsn	Len	Tro	Len		Thr	Δla	Phe	His		Laze
2762			141	260	•••	1101	LCu		265			1114		270	<u></u>	L
				200					265					2/0		
2763	a 1	G	+			D1		T			77- 7	*** 7	a		•	a 1
2764	GIY	ser		ser	Asp	Pne	ьеu	_	Ата	Asn	vaı	vaı	_	Trp	Asn	GIU
2765			275	_	_	_	_	280	_				285			
2766	Leu	Cys	His	Ile	Ala	Glu	Thr	Met	Ala	Arg	Gly	Leu	Ala	Tyr	Leu	His
2767		290					295					300				
2768	Glu	Asp	Ile	Pro	Gly	Leu	Lys	Asp	Gly	His	Lys	Pro	Ala	Ile	Ser	His
2769	305					310					315					320
2770	Arq	qaA	Ile	Lvs	Ser	Lvs	Asn	Val	Leu	Leu	Lvs	Asn	Asn	Leu	Thr	Ala
2771		-		4	325	-				330	•				335	
2772	Cvs	Ile	Ala	Asp	Phe	Glv	Leu	Ala	Leu		Phe	Glu	Ala	Glv		Ser
2773	0,0		1124	340		- 1			345	_, _		<u></u>		350	_,,	501
2774	777	C1	7 00		TI i a	~1	~1 m	770 7		mb w	7 200	7 ~~~	Т		77.	Dwo
	ALA	Gry		TIII	His	GIY	GIII		GIY	TILL	Arg	ALG		Mec	Ата	PIO
2775	~-1	1	355	~ 7				360	_1		_	_	365	_,	_	_
2776	GIU		Leu	GLu	Gly	Ата		Asn	Pne	GIn	Arg		Ala	Pne	Leu	Arg
2777		370					375					380				
2778		Asp	Met	Tyr	Ala		Gly	Leu	Val	Leu	\mathtt{Trp}	Glu	Leu	Ala	Ser	Arg
2779	385					390					395					400
2780	Cys	Thr	Ala	Ala	Asp	Gly	Pro	Val	Asp	Glu	Tyr	Met	Leu	Pro	Phe	Glu
2781	-				405	-			_	410					415	
2782	Glu	Glu	Ile	Glv	Gln	His	Pro	Ser	Leu	Glu	Asp	Met	Gln	Glu	۷al	Val
2783				420					425					430		·
2784	T/a l	Hic	Lve		Lys	Δνα	Dro	T = 17		Δτα	Aen	ጥነታዮ	ጥጥ		Tage	Hic
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RAW SEQUENCE LISTING PATENT APPLICATION US/09/267,963B

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															IN	VPUT	SET:	S36584	.raw		
	2785			435					440					445		_					
	2786	Ala	Gly	Met	Ala	Met	Leu	Cys	Glu	Thr	Ile	Glu	Glu	Cys	Trp	Asp	His				
	2787		450					455					460	-	_	-					
	2788	Asp	Ala	Glu	Ala	Arq	Leu	Ser	Ala	Gly	Cys	Val	Gly	Glu	Arg	Ile	Thr				
	2789	465				Ī	470			-	-	475	-		•		480				
	2790	Gln	Met	Gln	Arg	Leu	Thr	Asn	Ile	Ile	Thr	Thr	Glu	Asp	Ile	Val	Thr				
	2791				_	485					490			_		495					
	2792	Val	Val	Thr	Met	Val	Thr	Asn	Val	Asp	Phe	Pro	Pro	Lys	Glu	Ser	Ser				
	2793				500					505				_	510						
	2794	Leu																			
	2795																				
	2796																				
		(0)																			
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>	2970				TYX:					_) 1	97 leti	<i>"</i> "								
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	2972		(44)	MOT	ECULI	ים מינים	. ישר		: 40												
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	2978		(xi)	SEO	IENCI	E DES	CRTI	ייסדיים	v . Si	EQ II	סוגו מ	. 37	•			C eq		ر, ص	gn	enn	,
	2979		(111)	DEQ.	o Live	. DD.	JUNI			20 T.	3 110	,	•					- 1	Lum	mari	
	2980	Cvs	His	Cvs	Ser	Ara	G111	Va l	Glv	Cys	Asn	Δla	Ara	Thr	Thr	Glv	Trp	V	JUN,	sino Enn Enn Ste	1
	2981	Cyb		CJD	501	9	O L u	var	0-7	Cyb			**** 9				5	'		she	10
	2982	Va l	Pro	Glv	Tle	Glu	Phe	Leu	Asn	Glu	Thr	Asp	Ara	Ser	Phe	_					
	2983			011		0					20		3		25	-1-			3 (
	2984	Asn	Thr	Cvs	Tvr	Thr	Asp	Glv	Ser	Cys		Gln	Ser	Ala		Pro	Ser			\leq	
	2985			- 2	- 4 -			2		- 2	- 3 "			35					40	ノ	
	2986	Pro	Glu	Ile	Ser	His	Phe	Gly	Cys	Met	Asp	Glu	Lys	Ser	Val	Thr	Asp				
	2987							- 4	•		<u></u>	5.0				55	-		60	」 <i>)</i>)
	2988	Glu	Thr	Glu	Phe	His	Asp	Thr	Ala	Ala	Lys	Val	Cys	Thr	Asn	Asn	Thr		_		
	2989						_				-		,	<u></u> 65	5			70			
	2990	Lys	Asp	Pro	His	Ala	Thr	Val	Trp	Ile	Cys	Cys	Asp	Lys	Gly	Asn	-Phe-				
	2991															() 8	35			90 `)
	2992	Cys														_					
	2993																				
	2994																				
	2995																				
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	3121	(2)		KMA'.	TENC	FOR	SEQ	TD 1	NO:46	o:].								n	. , /	6 sho n ng	_
_	3122		(i)	SEQ!	JENCE	L CHA	1KAC'I	FEKT?	OTTC:	:/_	- ~	nai	da	terry	re	oper	M/	reed	re((6 sto	rus
>	3123			(A)	TENC	2 2.H:	i ami	no a	icidi	s (///	,		ı		•			71	nne	ct.
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	7120																				

PAGE: 5

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/267,963B

INPUT SET: S36584.raw

3129
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 46:
3130
3131
Gly Thr Ala Arg Tyr Met
3132
3133

Murabyred number

SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/09/267,963B

DATE: 04/02/2001 TIME: 22:24:56

INPUT SET: S36584.raw

Line	Error	Original Text
29	Wrong Classification	(C) CLASSIFICATION: 435
2719	Unknown or Misplaced Identifier	(B) TY7PE: amino acid
2969	Entered (102) and Calc. Seq. Length (97) differ	(A) LENGTH: 102 amino acids
2970 3123	Unknown or Misplaced Identifier	(B) TY7PE: amino acid
3123	Length must be an Integer Entered (0) and Calc. Seq. Length (6) differ	(A) LENGTH: amino acids(A) LENGTH: amino acids